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TACOM LCMC INDUSTRIAL BASE ENGINEERING SUPPORT – Board of Directors

TARDEC, Engineering Business Group
July, 2011

Report Documentation Page			Form Approved OMB No. 0704-0188		
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a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

**Provide an overview of the U.S. Army Tank
Automotive Research, Development and
Engineering Center's (TARDEC's) capabilities
related to LCMC Industrial Base Support**





Agenda



- Purpose
- Industrial Base Environment
- TARDEC Industrial Base Support
- Industrial Base Culture Change
- IBIT/IBET Mission
- TARDEC's DMSMS Contract
- Depot/Arsenal Support

Escalating Support Challenges (production & sustainment)

- Increasing O&S requirements (65-80% of Life Cycle Cost)
- Equipment condition due to deployment s (Degradation)
- Obsolescence of Army systems due to age (25-40 yrs)
- Loss/change of manufacturing sector for COTS (Support Strategy Risk)
- Inconsistent lifecycle sustainment policy & planning (Organic vs CLS vs TDPS?)
- Inconsistent engineering/design influence for sustainment (Poor Planning)
- Stove-piped industrial base issue investigation & resolution (ILSC & PM versus LCMC)
- Negative economic trends impacting commercial industrial base (Industrial Base Risk)
- Environmental and safety impacts

Result = Increase in Re-active Support Issues

Solution = Pro-active Logistics Engineering Support



TARDEC Industrial Base Engineering Support



Industrial Base Engineering Team (IBET)

TARDEC Engineers:

- Support LCMC Industrial Base requirements
- Provide investigation
- Leverage experience, capability & expertise
- Provide quick response to problems
- Support proactive management
- Improve LCMC communication
- Apply disciplined processes
- Implement LCMC wide solutions (standardization)

TARDEC POC: IBET Team Leader, Mr. Tony Mitek



Past Support = Component or platform focus

- Lack of standardized LCMC strategies
- Separate platform support
- Focus on select STS & OEM supported platforms
- Individual “isolated” platform solutions
- LCMC and experience was not leveraged or shared
- No pro-active Industrial Base or DMSMS management

Current/Future Support = LCMC consideration & application

- Industrial Base Integration Team (IBIT) Process (2007) = LCMC focus
- Leverages & shares common/existing LCMC solutions & capability
- Interfaces with broad commercial industrial base (DMSMS contract)
- Pro-active LCMC Industrial Base monitoring (capability & risk)
- Leverages & cultivates non-traditional sources of capability
- Documents IBIT issues and provides user access (IBIT Console)

Testing, Verification and Validation
Operational Impact Analyses
Reverse Engineering
Strategic Materials
DMSMS Management & Operation
Tracking of Bills of Material and Technical Data Packages

One Team
One Vision

Industrial Capability Assessments
Defense Priorities Allocation System
Industrial Labor Relations
Production Readiness Review
Surge and Contingency Operations
Committee on Foreign Investment in the United States (CFIUS)

Industrial Base Engineering Team IBET

Industrial Base Management Group IBMG



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Address all Industrial Base issues associated with lack of sources required for production and/or sustainment (technology, materials, manufacturability)

- Capable of addressing all Industrial Base issues
- Quick turn-around capability for problems
- Proactive
- Promotes communication among all members
- Disciplined project management process
- LCMC solutions
- Leverages LCMC experience and capability
- Captures historical data and metrics
- Monitor, identify, and resolve industrial manufacturing risk or non-support conditions.
- Eliminate or minimize impact and / or reduce operating and support costs for equipment supported by the TACOM LCMC
- Identification of current suppliers as well as those who have not historically conducted business with the government.
- Provide TACOM LCMC Managers maximum visibility of support options
- Occupational Safety Health Administration (OSHA), Environmental Protection Agency (EPA), Society Of Engineers (SAE) initiatives





IBIT/IBET Mission



LCMC IBIT Console/Database

- **Operational 08/2010**
- **User has direct access from TACOM LCMC Portal**
- **Captures LCMC industrial base issues**
- **User Inputs - Industrial Base Action Report (IBAR)**
- **Inputs can be either “information only” or “action requested”**
- **Provides visibility of LCMC wide issues, requirements or data**
- **Supports shared LCMC investigation/resolution**
- **Promotes standardization Across LCMC**
- **Provides LCMC historical data**



TARDEC's DMSMS Contract



TARDEC Contract with Automation Alley (DMSMS Tool)

- DMSMS case investigation, resolution & coordination support
- Database of LCMC relevant commercial industrial capability
- Access and communication with nationwide commercial industrial base
- Industrial base management (capability, health, trend, and risk analysis)
- Pro-active obsolescence avoidance
- Reverse engineering
- Technical Data Packages (TDPs)
- Prototype & emergency replacement parts
- Test Planning and execution
- Partnership capability (commercial and organic)
- Cultivates new non-traditional sources of industrial base support
- Supports commercial economic development

Status

- Contract awarded on 21 September, 2009
- Requirements (Work Directive) based contract
- Currently available to TACOM LCMC community

**Diminishing
Manufacturing
Sources and
Material
Shortages**

- Automation Alley, Michigan's largest technology business association, is currently on contract with TARDEC to provide industrial base support for the TACOM LCMC Diminishing Manufacturing Sources and Material Shortages (DMSMS) program
- The contract with Automation Alley has created a capability to establish commercial industrial base visibility and communicate TACOM LCMC requirements with companies across the United States
- Current Efforts:
 - Industrial Base Data & Communication Tool
 - TACOM LCMC Industrial Base Health/Risk Assessments
 - Sustainment Engineering Risk Assessments (SERA) of TACOM Equipment
 - Cadmium/Hex Chrome Replacement (High Purity Aluminum) Capability
 - Advanced Aviation Forward Area Refueling System (AAFARS) Tech Data Development
 - Common Automotive/TACOM LCMC Industrial Base Sector Study

TARDEC DMSMS Contract Officer's Representative (COR), Mr. Stan Michener



Depots/Arsenals Liaison Program

TARDEC Engineers:

- Participate in Developmental Assignments
- Have 6 to 24 months experience
- Rotate on-site assignments of 90 to 120 Days
- Are exposed to programs & issue experience
- Attend bi-weekly VTC with LCMC (PEO/PM/TARDEC/ILSC)
- Attend monthly WPU with LCMC & AMC
- Provide communication and collaboration of requirements necessary for the success of the TACOM LCMC mission
- Link experience and expertise between TACOM LCMC and the depots and arsenals
- Provide engineering support to assist with problem investigation, resolution and/or implementation
- Create synergies and standardization opportunities across the TACOM LCMC organizations and platforms
- Support individual and career development



Depot/Arsenal Support

Liaison Status



Implemented to date:

- ANAD, JAN 2009 (On site)
- RRAD, JAN 2010 (On site)
- RIA (As needed)
- SIAD (As needed)

Example Issues:

- Hexavalent Chromium/Cadmium (RRAD)
- Common Adhesive (ANAD)
- AVLB Pressure Plate (ANAD)
- Paladin Corrosion (ANAD)
- Abrams Transmission Line (ANAD)

**TARDEC POC: Depot Liaison Action Officer,
Ms. Adrennia Hughley**



Questions

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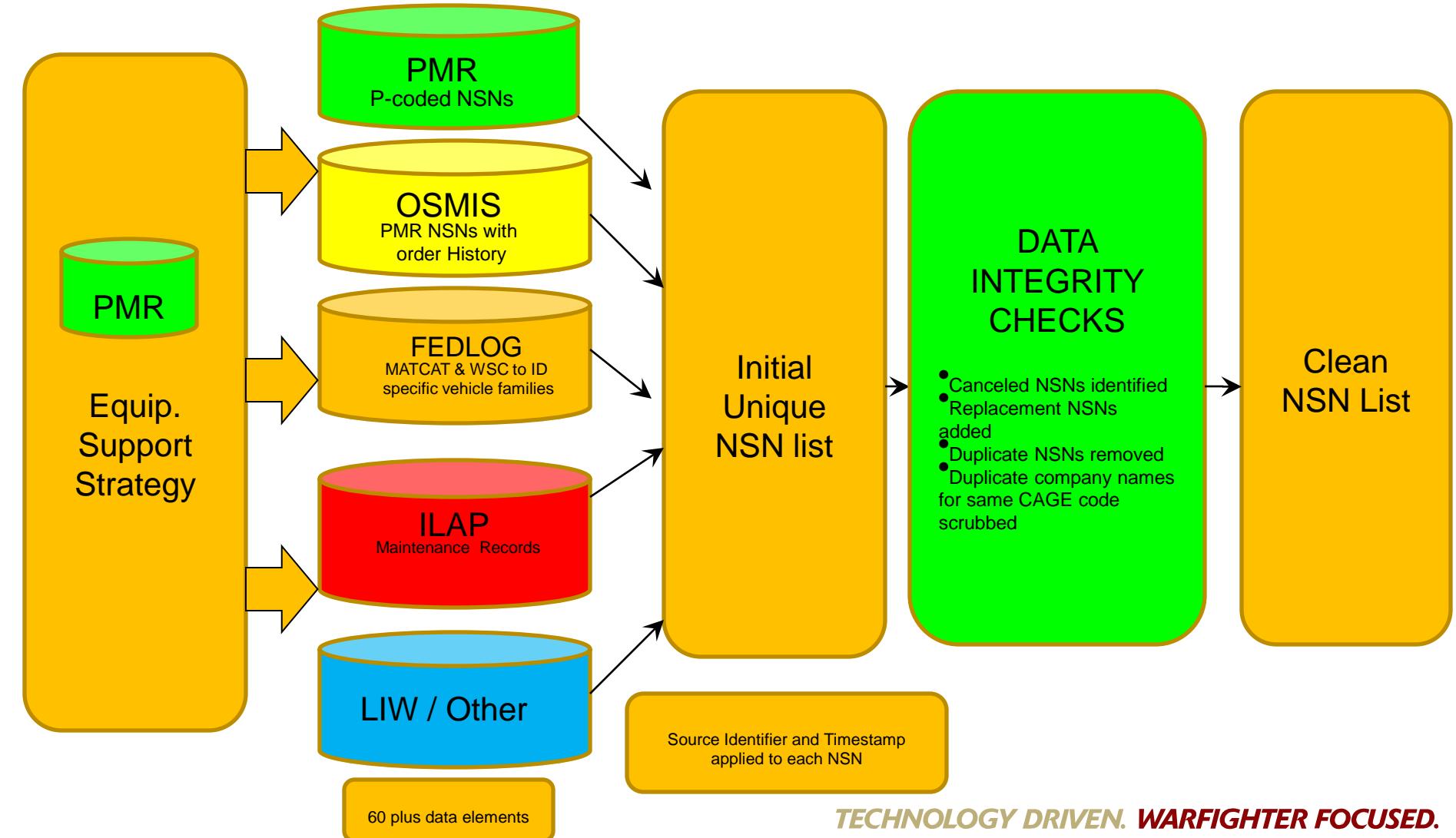
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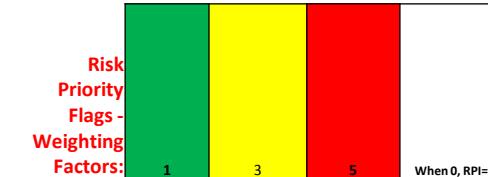
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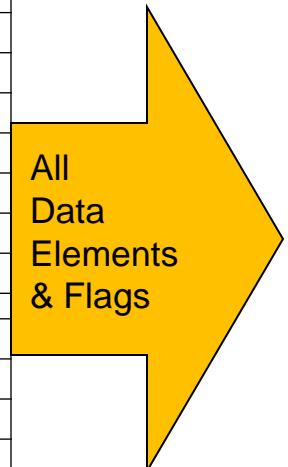




SERA Selection Matrix & Risk Priority Indicator



Line #	Normalized RPI (1.000 Scale)	Overall Risk Priority Indicator	NOTE: Sort Order: 1) Decreasing RPI 2) Decreasing Unit Price							
			FSC	FSC Group Description	NIIN	NOMENCLATURE	CON/REP	AMDF UNIT PRICE	Unit Price Flag	Mfg Sources Count of CAGE CODEs
1	0.938	45	2815	Diesel Engines and Components	01-523-6667	ENGINE,DIESEL	R	\$32,685.00	1	1
2	0.938	45	2520	Vehicle Power Transmission Components	01-435-0408	PROPELLER SHAFT WIT	C	\$619.00	1	1
3	0.833	40	2940	Engine Air and Oil Filters - Nonaircraft	01-514-2457	FILTER ELEMENT,INTA	C	\$73.18	1	1
4	0.771	37	2520	Vehicle Power Transmission Components	01-347-7646	TRANS ASSY W CONTAI	R	\$11,065.00	1	1
5	0.771	37	2530	Vehicle Brake Steering Axle Wheel Components	01-327-1350	STEERING GEAR	C	\$905.00	1	2
6	0.729	35	2520	Vehicle Power Transmission Components	01-505-7556	AXLE ASSEMBLY,AUTOM	R	\$27,342.00	1	2
7	0.729	35	6680	Liquid-Gas-Motion Measuring Instruments	01-540-3074	METER-RECORDER,TIME	C	\$2,048.00	1	1
8	0.729	35	2930	Engine Cooling Sys Comps - Nonaircraft	01-331-2987	RADIATOR,ENGINE COO	C	\$1,950.00	1	1
9	0.729	35	4330	Centrifugals Separators and Filters	01-538-9923	PARTS KIT,FLUID PRE	C	\$415.00	1	1
10	0.729	35	5330	Packing and Gasket Materials	01-150-9812	GASKET AND SEAL SET	C	\$88.23	1	2
11	0.729	35	6220	Electric Vehicular lights and Fixtures	01-495-2851	LIGHT,WARNING	C	\$36.89	1	1
12	0.729	35	2590	Miscellaneous Vehicular Components	00-778-0324	TRAILER COUPLING,TE	C	\$19.61	1	4
13	0.708	34	2815	Diesel Engines and Components	01-479-4199	ENGINE,DIESEL	R	\$3,275.00	1	3
14	0.708	34	2920	Engine Electrical Sys Comps Nonaircraft	01-517-1792	MODULATOR ASSEMBLY,	C	\$1,412.06	1	1
15	0.708	34	7025	ADP Input/Output and Storage Devices	01-509-8642	DATA ENTRY UNIT		\$106.29	1	4
16	0.708	34	5330	Packing and Gasket Materials	01-319-2137	GASKET	C	\$32.59	1	2
17	0.688	33	4710	Pipe and Tube	01-331-6720	TUBE ASSEMBLY,METAL	C	\$119.85	1	1



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SERA Sustainment Analysis Flags



Weight Factor	Flag Description	Risk Condition
5.0	Single or no CAGE Code	1: <=1 CAGE Code
5.0	PBO 6-Month	1: Y
4.0	Zero Balance with Due Out	1:ZBAL="Y"and OH<0.5*RO
3.5	Acquisition Advice Code	1: AAC= Y,V,N,X,T, Inactive or Nomen = Inactive
3.5	Top 15% CWT	1: >= top 15% in latest year
3.5	Warehouse OH Stock < RO	1: OH<RO
3.0	Zero Stock with Recent Demand	1: OH=0 with Dmd in last 2 yrs
3.0	No Recent Demand	1: OSMIS & ILAP=0 in last 2 yrs
3.0	D&B High Risk Flag	1: Y
2.5	OCONUS Only CAGE Code	1: All CAGE Codes(>0) = OCONUS
2.5	Top 15% Closed Maint Workorder	1: >= top 15%
2.5	Top 15% Open Maint W/O in past 12M	1: >top 15%
2.5	Readiness Driver	1: Y
2.5	Technical Data Availability	AMC/AMSC & DAC
2.0	Closed Maint Workorder	1:>0
2.0	Open Maint W/O in past 12M	1:>0
2.0	CWT Increasing	1:Latest FY >1.1*Prev FY AND Latest FY > Median
2.0	Recent Back Order (60 day)	1: Y
2.0	Hazardous Materials	HMIC, HCC, & characterisitscs

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Results from SERA

- Evaluate all known support risk for the forecasted remaining life of the subject equipment
- Document fact-based evidence of risk
- Provide data for platform and / or strategic manager use
- Allow managers to tailor risk factors
- Could support Sustainment health Metrics

Accessing the IBIT Console

The IBIT Console is accessed through the TACOM LCMC Intranet Portal. The portal provides a central hub for various Army resources and information.

Portal Home: The main page displays the Commanding General and Command Sergeant Major, along with a search bar for "Find US Army People". It also features links for "Senior Leadership & Executives" and "Executive Dashboards".

Guidance: This section includes links for Accessibility, Acronym Help, Association Links, BRAC, Command History, Corporate Fitness (WIR), Federal Pay Systems, IT Services, Lean Six Sigma - A&O, PBS, PBL, Personal Identifiable Information (PII), Personnel Accountability, Relocation Readiness, Security, Sexual Assault Prevention, Sponsorship Program, Value Engineering, Employee Self Service, Army Suggestion Program, ATAAPS, ATAAPS Information, Benefits, Benefits Site, Employee Assistance Center, Forms and Templates, MyPay, Phonebooks, and Resume Builder.

TACOM LCMC Events: Displays the "2011 Dr. Martin Luther King Jr. Day Observance" event.

Warren General Announcements: Lists Michigan Yuletide Pedal Ride, TACOM LCMC Workforce Roster, Michigan Shelby Tap Riders VI, Michigan Belleville-TACOM Ride, Pinckney/Whitmore Lake Ride, Michigan Macomb Township Run, Michigan Marysville/Fair Haven Run, Detroit Arsenal Labor Management, Construction and Parking Unit, and Marathon and Team.

Logistics: This section includes links for BSC Home Page, Army Website, Army Downloads, BRAC, Command History, Corporate Fitness (WIR), Federal Pay Systems, IT Services, Lean Six Sigma - A&O, LMS, PBS, PBL, Personal Identifiable Information (PII), Personnel Accountability, Relocation Readiness, Security, Sexual Assault Prevention, Sponsorship Program, Value Engineering, Employee Self Service, LCMC Newsletters, and Search Center.

Logistics Links: Includes links for BSC Home Page, Army Website, Army Downloads, BRAC, Command History, Corporate Fitness (WIR), Federal Pay Systems, IT Services, Lean Six Sigma - A&O, LMS, PBS, PBL, Personal Identifiable Information (PII), Personnel Accountability, Relocation Readiness, Security, Sexual Assault Prevention, Sponsorship Program, Value Engineering, Employee Self Service, LCMC Newsletters, and Search Center.

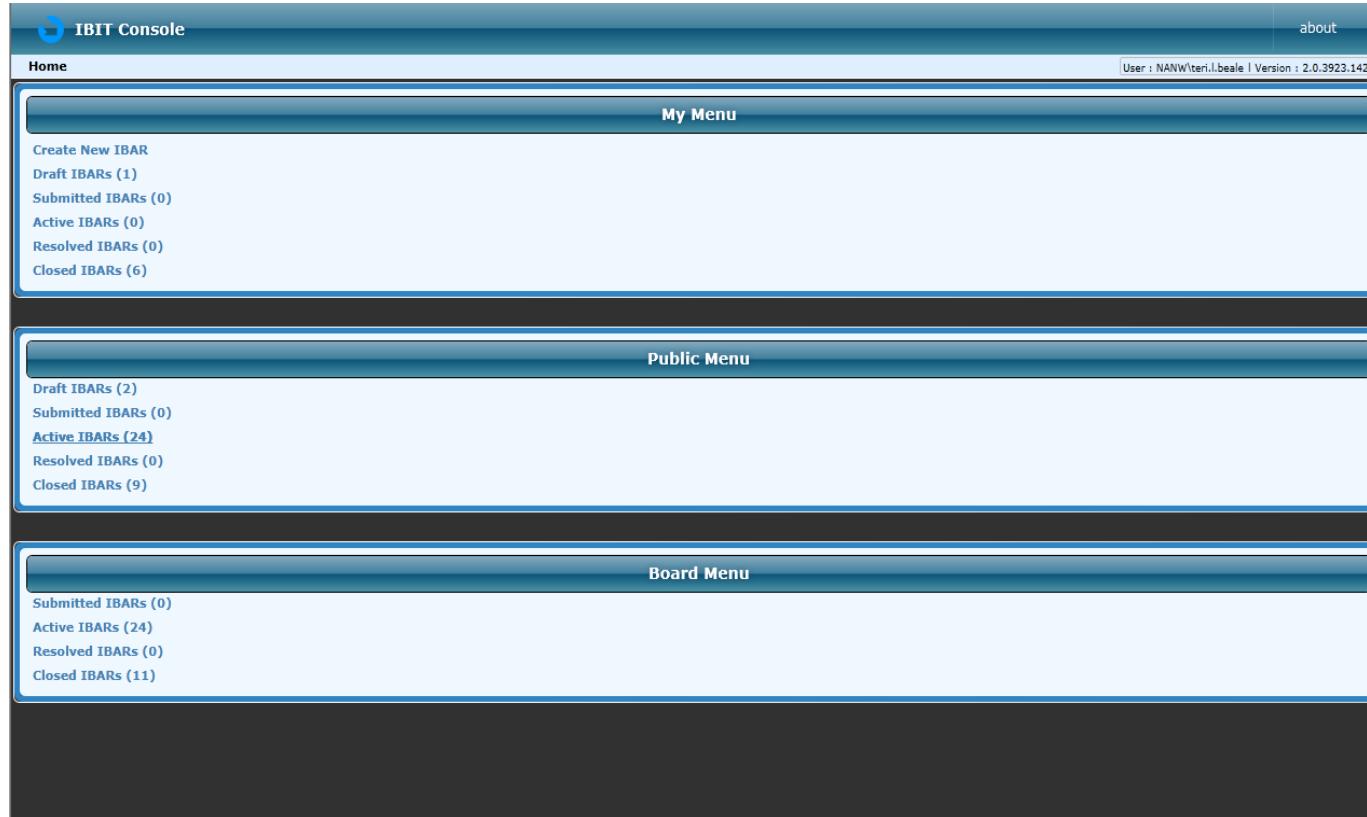
IBIT: This section includes links for Accessibility, Acronym Help, Association Links, BRAC, Command History, Corporate Fitness (WIR), Federal Pay Systems, IT Services, Lean Six Sigma - A&O, LMS, PBS, PBL, Personal Identifiable Information (PII), Personnel Accountability, Relocation Readiness, Security, Sexual Assault Prevention, Sponsorship Program, Value Engineering, Employee Self Service, LCMC Newsletters, and Search Center.

TACOM LCMC IBIT Console: A screenshot of the IBIT Console interface showing a table of issues. The table columns include Id, Status, Subject, Submitted Date, Target Date, Role, and Issue Status. The table shows five rows of data:

Id	Status	Subject	Submitted Date	Target Date	Role	Issue Status
1	Open	PM Bradley - Industrial Base / Obsolescence Sustai...	10/14/2010 9:14:43 AM	11/12/2010 12:00:00 AM	Team Member	Closed
2	Open	DMSMS Case ACN2010000160				
3	Open	CPJUS Case 10-36: Chemring PLC (U.K.) and Meca...				
4	Open	Abrams M1A2 DSETS Obsolescence Investigation				

Footer: Includes links for Access IBAR, IBIT Console Admin, IBIT Metrics, IBIT Weapon System Data, About IBIT, IBIT Links, IBIT Wiki, and IBIT Console POC.

Using the IBIT Console – Homepage



The screenshot shows the IBIT Console homepage with three main menu sections:

- My Menu**:
 - Create New IBAR
 - Draft IBARs (1)
 - Submitted IBARs (0)
 - Active IBARs (0)
 - Resolved IBARs (0)
 - Closed IBARs (6)
- Public Menu**:
 - Draft IBARs (2)
 - Submitted IBARs (0)
 - Active IBARs (24)**
 - Resolved IBARs (0)
 - Closed IBARs (9)
- Board Menu**:
 - Submitted IBARs (0)
 - Active IBARs (24)
 - Resolved IBARs (0)
 - Closed IBARs (11)

- User selects an existing issue or creates a new one.

Issue Data Tab

IBIT Console

Home >> Create Issue

User : NANW\terri.l.beale | Version : 2.0.3923.14218

Issue Number : , **Status :** Not Saved, **Access :** Full

Issue Details

Subject * Please enter subject

Requestor's Name Please enter requestor's name

Requestor Ph. # Please enter requestor's phone number

Issue Type *

Organization * Select an Organization

Issue Access Workgroup Only

Cause

Action Desc * Action Request Description

Additional Info

Urgent? No

Target Dt * 12/16/2010

Justification

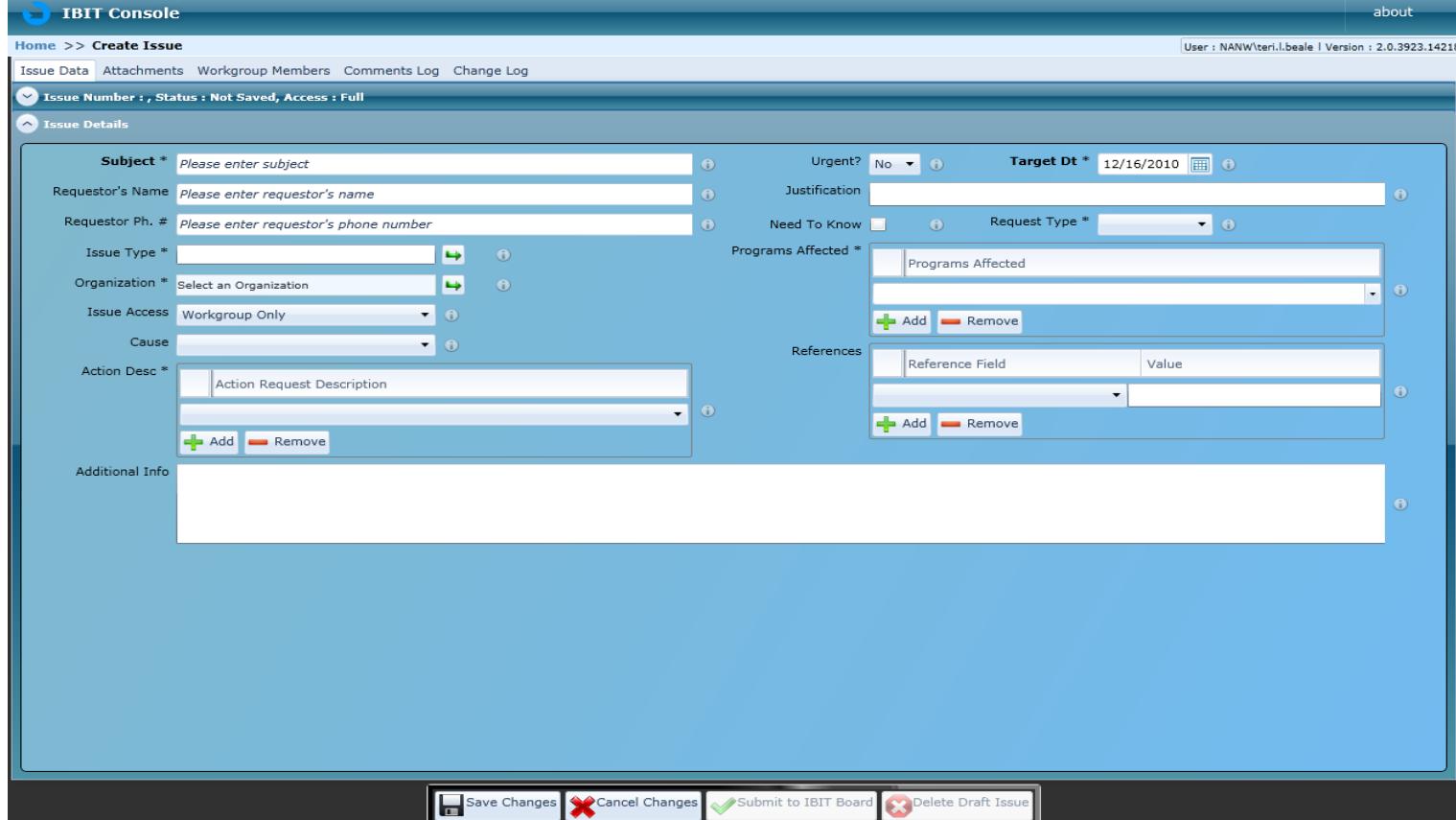
Need To Know

Request Type *

Programs Affected *

References

Save Changes **Cancel Changes** **Submit to IBIT Board** **Delete Draft Issue**



- User Completes fields to describe the issue and provides pertinent information

Workgroup Member Tab

IBIT Console

Home >> Create Issue

User : NANW\teri.l.beale | Version : 2.0.3923.14218

Issue Data Attachments Workgroup Members Comments Log Change Log

Members

	User Name	Role	Access	Date Added	Email	Issue Last Accessed
▶	teri.l.beale	Team Member	Full	11/16/2010 2:10:23 PM	teri.l.beale.ctr@us.army.mil	
	Count: 1					

Note: Use DELETE key to delete a row.

Search Users Search By Display Name Search Scope Warren Rock Island Natick All Army

Last Name: First Name:

Display Name	Email	User Name

User Role:

Access Level:

Industrial Base Database Homepage

salesforce.com - Enterprise Edition - Mozilla Firefox

File Edit View History Bookmarks Tools Help

salesforce.com https://na7.salesforce.com/home/home.jsp

Automation Alley Defense Logistics Age... Google Crain's Detroit Business Dun & Bradstreet Salesforce.com - Cust... Dogpile Dictionary.com Defense Supply Cent... AKO Army Knowledge Online IHS Login

Project Leader - Michigan Technology salesforce.com - Enterprise Edition

Search All... Search Dan Raubinger Help & Training DMSMS

Home Companies Contacts Reports Campaigns Dashboards 4-Digit FSC Codes 6-Digit NAICS Codes Leads Ideas WD008 Questionnaires +

There are updates available for your computer. [Click here](#)

Create New... Dan Raubinger Wednesday November 24, 2010 Chatter 101

Show Chatter New!

Recent Items

- Mike Thieman
- THT Presses, Inc.
- Performance Welding, LLC
- IC-126644
- IC-126643
- IC-126642
- IC-126641
- Kurt Wollenberg
- IC-126640
- 812990

Custom Links

Messages and Alerts

Dashboard Refresh Customize Page

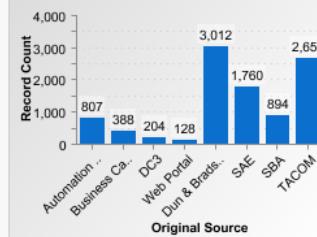
Last refreshed at 11/24/2010 12:49 AM. Displaying data as DMSMS.

All Companies



Record Count

All Companies by Original Source



Original Source	Record Count
Automation Alley	807
Business Card	388
DC3	204
Web Portal	128
Dun & Bradste...	3,012
SAE	1,760
SBA	894
TACOM	2,651

All Companies by SOURCE

SOURCE	Record Count
Automation Alley	808
Dun & Bradstreet	3,726
DC3	389
DMSMS Portal	155
Business Card/ Trade Show	439
SAE	2,000
SBA	1,056
TACOM	2,747

My Tasks New Overdue

Start | Inbox - Micro... salesforce.co... Outreach Pre... Microsoft Po... 35% of 1 file ... 11:19 AM

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Company Search – provides relevant company information

Company: Century / 3 Plus LLC ~ salesforce.com - Enterprise Edition - Windows Internet Explorer
<https://na7.salesforce.com/001A0000003oRS3>

File Edit View Favorites Tools Help

Company: Century / 3 Plus LLC ~ salesforce.com...

salesforce  Search All... Search Stan Michener Help & Training Platform

Home Chatter Companies Contacts Reports Dashboards Documents 6-Digit NAICS Codes 4-Digit FSC Codes Industry Classification Code SIC Codes

Create New... Company Century / 3 Plus LLC Customize Page | Printable View | Help for this Page ?

Recent Items

- Century / 3 Plus LLC
- SSI Technology Inc
- 2320
- 2330
- BAE Systems Vehicle Services
- 2510
- Aristo Cast, Inc. d/b/a Aristo Cast Investment Casting
- 3D Dimensional Services Group
- Century Plating Inc
- RCO Engineering

Recycle Bin

Dan Raubinger changed Company Name to Century / 3 Plus LLC.
 December 7, 2010 at 4:18 PM Comment

Followers Show All (1)

Contacts [4] | Open Activities [0] | Activity History [1] | Notes & Attachments [3] | Industry Classification Code [1]

Company Detail

Company Owner	 Cindy Kainz [Change]	Phone	(231) 946-7500
Company Name	Century / 3 Plus LLC [View Hierarchy]	Fax	(231) 947-4456
Parent Company		Website	http://www.centinc.com
Description	Precision turning, milling, grinding, and cutting . Low-to-medium volume, high mix production runs . Highly skilled craftsmen and advanced technologies . Consistently manufactured high-precision parts . Computer numerically controlled turning, milling, and grinding . Machining tolerances of plus or minus .0002" . ISO 9001: 2000 international certification . Extensive heat-treatment services with NADCAP certification . Quality assurance and customer satisfaction . Metallurgical laboratory and inspection services		
Contract Awarded?	<input type="checkbox"/>	WD007	

Internet | Protected Mode: On 100% Done

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Company Search – provides relevant company information

Company: Century / 3 Plus LLC ~ salesforce.com - Enterprise Edition - Windows Internet Explorer
https://na7.salesforce.com/001A0000003oRS3

File Edit View Favorites Tools Help

Company: Century / 3 Plus LLC ~ salesforce.com... WD007

Contract Awarded? Amount of Contract Awarded

Small Business Yes # of NAICS Codes 1 # FSC Codes 0

Source(s)

SBA	<input checked="" type="checkbox"/>	Automation Alley	<input checked="" type="checkbox"/>
SXT	<input type="checkbox"/>	Detroit Chamber	<input type="checkbox"/>
TACOM	<input type="checkbox"/>	SAE	<input type="checkbox"/>
DC3	<input checked="" type="checkbox"/>	Business Card/Trade Show	<input type="checkbox"/>
D&B	<input checked="" type="checkbox"/>	Web Portal	<input type="checkbox"/>
Original Source	Automation Alley		

Company Details

Annual Revenue		Year Established	1966
Employees	233	Risk Score DnB	Low Risk
Owns/Rents?	Rent	SIC Code	35440000
Plant/Facility Size	76,000	Minority Owned	<input type="checkbox"/>
Location Type	Headquarters	Women Owned	<input type="checkbox"/>
Stock Ticker		Manufacturing	<input checked="" type="checkbox"/>
Ownership	Private	Subsidiary	<input type="checkbox"/>
Longitude	-85.574688	Accountant Name	
Latitude	44.744723	Bank Name	
MSA Value		Company AKA	Century-Sun Metal Treating
Foreign Trade	Imports/Exports	Type	

Address Information

Billing Address	2410 W AERO PARK CT TRAVERSE CITY, MI 49686-9102	Shipping Address
County - Billing	Grand Traverse	County - Shipping

Classification Information

DUNS Number	068802867	Primary Product
CAGE Code	1XVK4	Small Business Designation
Industry	Special dies, tools, jigs, and fixtures,	Veteran
Industry Sub Type		OESA Member <input type="checkbox"/>

Internet | Protected Mode: On 100% Done



Company Search – provides relevant company information

Company: Century / 3 Plus LLC ~ salesforce.com - Enterprise Edition - Windows Internet Explorer
https://na7.salesforce.com/001A000003oRS3

File Edit View Favorites Tools Help

Company: Century / 3 Plus LLC ~ salesforce.com... AA External ID 001600000MieCw

Custom Links

[Google Search](#) [Hoovers Profile](#)

[Edit](#) [Delete](#)

Contacts

New Contact Merge Contacts [Contacts Help](#)

Action	Contact Name	Title	Email	Phone	Primary Contact
Edit Del	Andrew Halonen	Technical Business Development	ahalonen@light-weighting.com	(906) 370-4984	<input type="checkbox"/>
Edit Del	Jim McManus	New Business Development Manager	jmcmanus@centinc.com	(231) 946-7500	<input checked="" type="checkbox"/>
Edit Del	Todd Mackey		tmackey@centinc.com	(231) 946-7500	<input type="checkbox"/>
Edit Del	Jeff McMullen	CEO	jmcmullen@centinc.com	(231) 941-6230	<input type="checkbox"/>

Open Activities

New Task New Event [Open Activities Help](#)

No records to display

Activity History

Log A Call Mail Merge Send An Email View All [Activity History Help](#)

Action	Subject	Name	Related To	Task	Due Date	Assigned To	Last Modified Date/Time
Edit Del	Email: RE: thanks for the update	Jim McManus		✓	11/3/2010	Dan Raubinger	12/7/2010 4:18 PM

Notes & Attachments

New Note Attach File View All [Notes & Attachments Help](#)

Action	Type	Title	Related To	Last Modified	Created By
Edit View Del	Attachment	image001.jpg	Jim McManus	12/7/2010 4:18 PM	Dan Raubinger
Edit View Del	Attachment	Gibbs Die cast survey form.xls	Jim McManus	12/7/2010 4:18 PM	Dan Raubinger
Edit View Del	Attachment	CompassAutomotive survey response Nov 3 2010.xls	Jim McManus	12/7/2010 4:18 PM	Dan Raubinger

Industry Classification Code

New Industry Classification Code [Industry Classification Code Help](#)

Action	Classification Link	NAICS Code	NAICS Desc	FSC Code	FSC Desc	SIC Code	SIC Desc	Record ID
Edit Del	IC-58576	333514	Special Die and Tool, Die Set, Jig, and Fixture Manufacturing					a0OA0000001CZFF

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